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Weight Indicator Guide

RICE LAKE[®]
WEIGHING SYSTEMS



At Rice Lake Weighing Systems, our goal is to be the best by every measure. When all else is equal, three things will make your experience with us distinctly different: Service. Selection. Speed.

Our roots are firmly planted in the principles of quality and customer service. Through three generations of family ownership, these ideals remain unchanged. As an international leader in the manufacture and distribution of weight-related products and process-control equipment, our experts know digital weight indicators and are here to guide you to the right one.

Rice Lake's digital weight indicators are standard- or custom-built for purpose, and capable of the most basic to the most complex of tasks. Industries such as retail, livestock, bulk weighing, shipping and logistics, as well as harsh or hostile environments can benefit from the durability and reliability of a Rice Lake indicator.

Custom message here.

Rice Lake Contact Information:

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Service, Repairs,
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Canada & Mexico
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800-321-6703

Customer Assistance and Service Department hours
Weekdays: 6:30 AM to 6:30 PM (Central Time)
Saturday: 8:00 AM to 12:00 PM (Central Time)
Customer service available in English, Spanish and French

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920i

The 920i supplies the performance, power and programmability necessary for complex processes without sacrificing user-friendly operation. Its customizable display enables application-specific prompts and messages, icons, graphs and softkeys to be added—creating a tailored experience on up to 10 screens for optimal efficiency and communication. The 920i can manage any weighing process and is easily expandable to integrate into virtually any system. It features multiple scale channels and can accommodate different scale types, including serial scale, total scale and digital diagnostic junction box.



- Programmability for virtually any application
- Customizable backlit LCD graphical display
- Custom program can store ID numbers, transactions, formulas, label formats and PLUs
- Configurable softkeys for an enhanced human machine interface (HMI)
- Customizable print and stream data formats
- Up to 28 individual analog scale inputs
- Expandable with up to 14 option card slots
- Host interface to iQUBE[®] digital diagnostic junction box
- 100 setpoints, 32 types

Additional features include: programmability, local/remote, configurable print/stream formats, linear 5-point calibration, truck in/out modes, batch and free-running setpoints and 16 x 350 ohm load cells per A/D card.

920i FlexWeigh Systems

Pre-engineered and pre-programmed 920i FlexWeigh Systems are turnkey answers to the most commonly used filling/batch processes.

- Bulk weighing
- Batch filling
- Flow rate



820i

The 820i offers a powerful combination of price and function. Available with either single- or dual-channel capability, it features an option slot to accommodate one of several option cards.

Its graphical display features a prompt line and customizable softkeys for increased productivity and application-specific functionality.

Onboard truck in/out and batching programs provide seamless industry solutions right out of the box.

- Programmable display prompts, which guides operators through functions
- Configurable softkeys for an enhanced human machine interface (HMI)
- Custom program with register data storage
- Up to two individual analog scale inputs
- Eight onboard digital I/O
- Option slot supports one of eight option cards
- 100 setpoints, 32 types



Additional features include: programmability, local/remote, configurable print/stream formats, linear 5-point calibration, truck in/out modes, batch and free-running setpoints and 16 x 350 ohm load cells per A/D card.



720i

The 720i is built with high-end features at a mid-level price point. Functional and easy to use, yet powerful and durable, the 720i is available with programmable or batching firmware.

Its configurable batch engine uses a condition/action language and up to 32 setpoints to automate actions. The backlit, graphical, transfective display can be seen in any lighting condition.

The 720i features truck in/out selections and advanced truck weighing features.

- Programmable display prompts, which guides operators through functions
- Backlit, graphical LCD display
- Configurable softkeys for an enhanced human machine interface (HMI)
- Standard truck in/out selections or advanced truck mode
- Store up to 1000 truck in/out records
- Option slot supports one of eight option cards

Additional features include: programmability, local/remote, configurable print/stream formats, linear 5-point calibration, truck in/out modes and 16 x 350 ohm load cells per A/D card.



880 Performance Series

The 880 Performance Series is built for enhanced communication. With two different enclosure types to choose from, Rice Lake's 880 Performance Series exceeds your expectations wherever you need it.

- Onboard USB (device and host), Ethernet TCP/IP (server and client) and RS-232 or RS-485
- NEMA Type 4X/IP69K enclosure
- Batch engine with 20 setpoints and 12 setpoint types
- Multi-range or multi-interval weighing



OPTION SLOTS

- EtherNet/IP™
- Profinet®
- ModBus TCP®
- DeviceNet®
- Profibus® DP
- Analog Output
- 4-Channel Relay

- LED display, 0.56 inch, 6-digit, 14-segment
- Four digital I/O channels
- Custom ticket and stream formatting
- Option cards provide expanded functionality for network protocols, analog output or relays
- Panel mount, DIN-rail clip mounting (880)
- Universal enclosure (880 Plus)
- Numeric keypad (880 Plus)

Additional features include: local/remote, configurable print/stream formats, linear 5-point calibration, batch and free-running setpoints, 8 x 350 ohm load cells per A/D card.

480 Legend Series

The Legend Series is a valuable solution for a variety of applications, from basic weighing to batching. These indicators are equipped with an ultra-bright LED or backlit LCD display and basic weighing keys. Keyed tare and built-in gross/net modes provide quick flexibility for everyday needs.

An optional lithium ion rechargeable battery allows for portable applications. The Legend Plus series offers a numeric keypad.



- LED or backlit LCD, 0.8 inch, 6-digit, 7-segment
- NEMA Type 4X/IP66 stainless steel enclosure
- Create custom gross, net and setpoint print formats
- Two independent RS-232 serial ports, and one available in 20 mA
- Single scale input for light capacity bench scales to heavy capacity industrial scales
- Local/Remote: secondary display in a remote location
- Eight setpoint steps for latched or continuous operation
- Optional internal rechargeable battery with power-saving modes
- Optional Ethernet TCP/IP and USB interface



420 Plus

Rice Lake's 420 Plus basic weight indicator offers two internal setpoints and a numeric keypad. The 420 Plus offers analog output and can power eight 350 ohm load cells or sixteen 700 ohm load cells.

- LED display, 0.8 inch, 6-digit, 7-segment
- Full numeric keypad
- NEMA Type 4X/IP66 stainless steel enclosure
- Two digital inputs, two digital outputs
- Counting mode
- Accumulator

SURVIVOR 420 HE

For chemically corrosive and Hostile Environments (HE), the 420 HE provides a durable basic-weighing solution with the added benefit of two setpoints and a 2-inch LED display. The 420 HE offers analog output and can power eight 350 ohm load cells or sixteen 700 ohm load cells.

- LED display, 2 inch
- NEMA Type 4X fiberglass-reinforced polyester (FRP) enclosure for ultimate environmental protection
- Neoprene boot covered switches
- Universal mounting tabs
- Up to 60 A/D updates per second
- Selectable display-update rate





IQ plus 390-DC/ 590-DC

Both the 390-DC and 590-DC operate on either AC power or disposable batteries for ultimate portability. The 390-DC features standard five-key operation and the 590-DC includes a numeric keypad for keyed tare entry. Both models power four 350 ohm load cells and include a serial port.

- LCD display, 1 inch, 6-digit, 7-segment
- NEMA Type 4X/IP66 stainless steel enclosure
- RS-232 port for full-duplex communications
- Configurable units
- Counting mode

120 and 120 Plus

For material handling or shipping and receiving applications, there is no need to sacrifice quality for price. Reliable yet cost-effective, the 120 powers up to four 350 ohm load cells and features digital filtering for stable, accurate weight data. Its durable, plastic enclosure protects the easy-to-read LED display. The 120 Plus is equipped with all the great features of the 120, but with a backlit LCD display and numeric keypad.

- LED or LCD display, 0.8 inch, 6-digit, 7-segment
- Up to 30 A/D updates per second
- Full front-panel digital calibration and configuration
- Two independent communication ports: one full duplex, uni-directional or active 20 mA current loop
- AC/DC adapter
- Internal rechargeable lithium battery (120 Plus)



CW-90X/CW-90

The CW-90 and CW-90X checkweighing indicators are designed to help speed up your weighing process and reduce production downtime. The configuration menus of the CW-90 and CW-90X are accessible through the front keypad, eliminating the need to open the back of the indicator and expose the unit to moisture or contaminants. For heavy washdown environments and HACCP requirements, the CW-90X is the indicator of choice. It features a liquid- and contaminant-resistant piezo keypad made to withstand sharp knife-point contacts.

- IP69K stainless steel enclosure
- Gore® PreVent® breather vent inhibits pressure buildup from environmental changes
- Storage for up to 50 IDs, expandable with WeighVault™ PC software option
 - Target weight
 - Over/under weight
 - Tare weight
 - Unit measure
 - ID number
 - Description
- LED display, 0.8 inch, 6-digit, 14-segment
- Over/under light indicators
- Two full duplex serial ports
- Four digital I/O points



Counterpart

Counterpart is a configurable indicator with high-resolution. It counts any part, from tiny resistors to heavy engine parts, accurately, quickly and easily. Offered in a choice of dual scale or single scale, the Counterpart can be connected to virtually any analog scale or serial scale/balance input. Easy to transport throughout a plant and ideal for seasonal or permanent installations, the Counterpart is rugged, lightweight and portable.

- LCD graphical display, transmissive for indoor viewing
- Single or dual channel models with serial scale input
- Four setpoint outputs
- Onboard storage for up to 150 IDs, expandable with WeighVault™ PC software option
- Two standard RS-232 ports
- Optional battery power

320IS/320IS Plus

The 320IS and 320IS Plus are intrinsically safe and designed for Class I, II and III; Divisions 1 and 2; and Groups A, B, C, D, E, F and G. The display's 0.8-inch digits ensure visibility is maintained. The 320IS Plus includes a full numeric keypad and setpoint control with optional remote I/O module.

- LED display, 0.8 inch, 6-digit, 16-segment
- Front-panel digital calibration
- Gross, tare and net computation
- NEMA Type 4X/IP66 stainless steel enclosure
- Power ON/OFF, battery save mode and time and date
- Permanent AC or portable DC battery power
- Fiber optic communication port for safe area peripheral interfacing





SURVIVOR LaserLight

The SURVIVOR LaserLight remote display and the M-Series messaging display offer long-range visibility and a non-glare lens. The LaserLight's LED display provides sharp, easy-to-read four- or six-inch weight readouts. With the M-Series messaging remote display, you can slide, scroll or flash any alphanumeric message.

- High-intensity red digits and annunciators
- Durable weather-resistant enclosure
- Non-glare contrast filtered lens
- RS-232, 20mA, RS-485 communications or optional wireless radio interface
- Enclosure breather vent
- Optional traffic control symbols (Stop/Go model)

LaserLT RD-1550

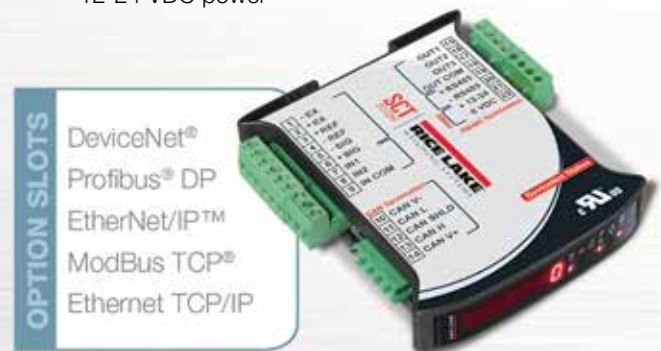
The LaserLT RD-1550 is IP69K-rated with a 1.5 inch display and is viewable up to 50 feet, indoors or out. Daisy chainable and usable with a wide selection of peripheral equipment, the LaserLT RD-1550 delivers incredible value and unbeatable durability.

- LED display, 1.5 inch, 6-digit, 7-segment
- NEMA Type 4X/IP69K-rated, stainless steel enclosure, hinged cover
- Six annunciators for weighing mode, units and status
- Additional red and green stop/go annunciator lights
- RS-232, 20mA communication ports
- Configurable keys to operate primary indicator
 - Print, tare, zero, gross, net and units

Signal Conditioning Transmitter/ Indicators

For PLC systems that require weight data from a scale, Rice Lake's SCT transmitters deliver signal conditioning in a compact design. SCT models are DIN-rail mountable within a cabinet or control panel, where they convert a scale's load cell signal to a digital signal that can be sent via serial, analog or network protocol outputs. Choose between the SCT-10, SCT-20 or SCT-30.

- 24-bit A/D converter
- 16-bit analog output
- Diagnostic messaging for load cell disconnect and over-capacity errors
- DIN-rail mounting for control panel or optional enclosure mounting
- 12-24 VDC power



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